



RE: Air Stripping for water supply pretreatment - water contaminated with petroleum and MTBE

Wardle, Alexander (DEQ)

to:

Chris Ralston, Jack Hwang

07/15/2011 08:29 AM

Cc:

"Haley, Karen (DEQ)"

Hide Details

From: "Wardle, Alexander (DEQ)" <Alexander.Wardle@deq.virginia.gov>

To: "Chris Ralston" <cralston@mde.state.md.us>, Jack

Hwang/R3/USEPA/US@EPA,

Cc: "Haley, Karen (DEQ)" <Karen.Haley@deq.virginia.gov>

Dear Chris

Thank you for researching this question for us.

I think the town of Round Hill's main concern is what their cost of upkeep will be once they have to take on a well and treatment system from a developer. They are hoping there is a town somewhere nearby their water engineers can compare notes with. So the VOC of concern may not be the most important consideration (the presumption being that the Virginia Department of Health will only permit the system once it is demonstrated to work), rather, what are the O & M implications to the town budget and personnel of operating the system?

If you had a contact for a town (deally in the more western, bedrock parts of Maryland) with any sort of VOC air stripping system I could pass on to the town of Round Hill, I would be very grateful.

Thanks for all your help

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From: Chris Ralston [<mailto:cralston@mde.state.md.us>]

Sent: Fri 7/15/2011 7:42 AM

To: Jack Hwang; christopher.brown@state.de.us; colewiler@state.pa.us

Cc: Wardle, Alexander (DEQ); Haley, Karen (DEQ); Rick Rogers; Karen Crumlish; JohnT Wilson

Subject: Re: Air Stripping for water supply pretreatment - water contaminated with petroleum and MTBE

Jack,

I have checked with our Water Supply Program and here was the response:

There are some municipal systems that have tray aerators for pH adjustment (driving off CO2) who also have had sources impacted by MtBE (e.g. Aberdeen and Chestertown), but MDE has not approved air stripping technology for MtBE removal in municipal water supplies. Air stripping has been used for other VOC removal.

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>>>

From: Jack Hwang <Hwang.Jack@epamail.epa.gov>
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 Rogers <Rogers.Rick@EPA.GOV>
Date: 7/14/2011 11:15 AM
Subject: Air Stripping for water supply pretreatment - water contaminated with petroleum and MTBE

Gentlemen,

We received a request from the town of Round Hill in Virginia. They would like to know if you are aware of any towns in your state that have had to operate and maintain an air stripping system for petroleum for water supply pretreatment? Round Hill would like to contact, and visit one so they know what they are getting into once they have to accept the developer's wells with MTBE in them. Thanks. Jack

In the meantime, I took the liberty of copying a few pages(see attachment) from the book MTBE Remediation Handbook which covers this topic. The handbook was published by Amherst Scientific Publishers in 2003, with Ellen Moyer and Paul Kostecki as editors.

Thanks. Jack

(See attached file: Air Stripping for MTBE Application.pdf)

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